

Collection no. 100

*Chimnick, McCabe, & Corby.*

# **COPY-WRITE PEN CARBON BOOK**

*Woomera Rocket Range*

**FOR ORDERS, LETTERS, ETC.**

*25/9 - 23/10/60*

**DUPLICATES FROM PEN OR PENCIL**

*A Pencraft* Production



Collecting Trip - Neomera - Wilusa  
Via Gile, Maralinga, Cotona.

25.9.60.

4771 <sup>*Calamagrostis* sp. *Typhlopus* sp.</sup> Sand plain bearing *Aneura*

with *A. ligulata* and *C. pailseyi* as  
occasionals. *Aristida adenaria* and  
*Neurachne* sp forming the ground cover  
with miscellaneous herbaceous annuals  
scattered throughout. Area past its peak  
with all ground strata species dying off.

4778 <sup>*Agrostis serotina*, *Umsia* sp.</sup> Similar to above, but here  
<sup>*Corypholobos* sp., *Apotrofia vittata*, *Gonocarpus* sp.</sup>  
conditions more favourable. Grass and  
<sup>*Myrtanthes* sp., *Collinsia variegata*, *Umsia* sp.</sup>  
herbaceous species green.

4843 Looker Pdy.

4851 Camped.

26.9.60

4851 Departed Sam.

4896 <sup>*Apotrofia* sp.</sup> Creek leading down from low  
hill scarps. *Aneura* dominant with scattered  
*C. freelingii* and *Casua* sp. *Aneura*  
as dominant ground cover but confined to  
drainage channels. Vegetation sparse.



4933 Mt. Willoughby.

4932 Wellbourne Hill

5038 Camped Wantapella Well (no granite  
Downs 5:45pm.

27-9-10

5038 Departed 7:30am.

5045 Turn off to Ewerard Pk.

5045 Sand plain with Cassia sp. as dominant  
shrub strata with scattered A. aurea.  
Grass cover sparse composed mainly of  
Cassia sp.

5049 Mica-schist outcrop with scattered  
A. kimberiana, A. vericaria, A. vericaria  
Tapeta sp. genus nov 6 (?) sp 2, Ulmus guttulosa  
growing on the slopes. Sandy at base  
with small water wash bearing miscellaneous  
animals including herbaceous helichrysum.  
Moxalines not confined to any food plant  
as far as could be determined.

5058 Granite knolls bearing scattered  
A. kimberiana, A. vericaria, A. vericaria  
and several large wild fig trees



In rock crevices *Sida corrugata* growing in dense clumps. Ground cover on sandy areas between boulders covered with small composite. Odd *A. kempiana* also present. Vegetation of soil strata dry or drying off.

5068 *Artemisia* sand plain, with *A. artemisia*  
*Artemisia guttularia*, *Aptropis maculosa*, *Azelota ochracea*,  
dominant and occasional *E. latifolia* and  
*Collitera variegata*, *Aptropis villosa*.  
*Cassia* sp. as shrub layer. *Eragrostis aeropoda*  
tussocks scattered throughout. Together with  
miscellaneous annuals. [dry]

5069 Bank lined with *Eucalyptus*  
*Artemisia guttularia*, *Aptropis sulphurifera*,  
Occas. *A. victoria* along the banks with  
*Collitera variegata*.  
grassy patches on the sides.

5075 Granite hills bearing *A. kempiana*  
*Aptropis sulphurifera*, *Artemisia guttularia*,  
with *Sida* and *Solanum* sp. and  
*Chenopodium terneerifera*.  
*Eragrostis aeropoda*; much dead debris of  
annual pastures. All dry.

5089 Everard Pk H.S.

5091 Sand plain and gully leading  
up between two granite hills, one a



Genus 56 sp. 2 (j), *Collitera variegata*, *Ulmus guttulosa*,  
a granite monolith. Greenish vegetation  
*Lyonia* sp., *Chytocates tenuifera*, *Photopsis*  
of *Cypripedium* sp. ferns and *Thunbergia*, etc.  
*Sulphur-pennis*, *Pycnostictus seriatus*, *Azelata schlegelii*,  
*Camaludensis* and *E. porosa* at base of  
*Strophus maculatus*, *Tapeia* sp.  
monolith. Sand plain with *A. anserina*  
and dead miscellaneous annuals many  
of which were composites.

5103 Malga sand rise. Timber *A. anserina*  
*Ulmus guttulosa*, *Strophus maculatus*, *A. anserina*  
mostly dead. Ground cover excellent  
*guttulosa*  
composed of *Nurachne* sp., *Erag. arispoda*  
*Amaranthus* sp., *Microcephalus* sp., ~~*Hyptis*~~  
sp., *Senecio* sp. all drying off but often  
green at base. Many Ind instar *Ulmus*  
sp. nymphs.

5108 Ridge of granite horn blende in curious  
*Ulmus guttulosa*, *Desertaria* sp. 2.  
blocky structure (baritone like) about 3-4 ft  
thick and up to 30 ft high. *Cassia* sp  
on lower slope and *Microcephala* sp as  
dominant ground cover on surrounding plain

5120 Limestone travertine ridge bearing  
mallee tree *Juniperus communis*. Ground cover



*Austroacris guttulosa*, *Goniaca* spp (2)  
 sparse consisting of *Bassia* sp and occas.  
*Aptropis sulphurea*, *Quilella maculata*,  
*Senecio gregoryi*. Stumps of dead *K. sed. folios*  
*Pycnostictus variatus*.  
 are all that remain of the former shrub  
 cover. Ground cover dry.

5131 Camped. 6pm. [7m - 9:30pm]

28.9.60

5131 Departed.

5135 Sandy rise with *A. victorae* most  
*Aptropis sulphurea*, *Tapesta* sp.  
 dead and patches of *Spinifex* (*Trodia scariosa*)  
 miscellaneous dry annuals on inter-tussock

space. No specimens from *Trodia*

5140 Red desert sandhill bearing *A. aptropis*  
*Pycnostictus variatus*, *Aust. guttulosa*, *Azalea*  
*lata* and *A. victorae*. Ground cover mainly  
*ochracea*, *Desertania longirifera*, *Utricularia guttulosa*,  
 annuals, *Myosiphala* sp with scattered tufts  
 of *Arctida arenaria* and *E. acropoda*. Cover  
 predominantly dry. *A. murrayana* in  
 dense thickets widely spaced.

5144 Kennon Park Turned back to Kulgera

express.

5191 NT-S.A. border fence.



Kulgera at 5216 Now retreating to  
Hemmore Pk.

5230 Malga sand plain bearing *A.*  
*Collitoba variegata*, *Austrocris guttulosa*  
*annua* occas. *A. tetragonophylla* and  
*umra guttulosa*  
*Hakea* sp (corkwood). Grounds cover extremely  
low and consist mainly of plant  
debris. Area drought devastated.

5236 Camped. 8 am - 5.30 pm [7-8 pm]

29-9-60

5236 Departed.

5241 Victory Downs H. S.

5242 Shallow creek area between low  
*Moraba* sp P21, *Coryphistea* sp, *Genus nov 6(?)* sp2  
Little. Hills timbered with *A. arcata*, *A. konfuciana*.

Creek bordered with *Cassia* sp. *Euc. camaldulensis*  
*A. tetragonophylla* and occas. *Specialia* (beefwood)  
Ground mainly <sup>small</sup> plant debris margins of  
creek with *Eragrostis* sp. *Aristida*, some *Bassia*  
*peruviana* and flowering *Catalpa* sp.  
Moorlines found amongst debris.



5251 Salga sand plain, rather bare with  
*Typhaea* sp.  
 only scattered remains of annual plant growth.  
*A. aurea*, *A. humifusa* with scattered *Cassia*  
*eremophila*.

5252 As for above with *A. humifusa* replacing  
*Umbra guttulosa*.  
*A. aurea* as dominant.

5270 Granite knolls within a *A. aurea*  
*Desertaria* sp.  
 sand plain, bearing *Eremophila latroli* and  
 several native figs (*Ficus* sp) *Eriosepogon nigrescens*  
 and *Eragrostis scopula* dominant plant cover  
 between rocks. Occas. *Solanum* sp in more  
 sheltered spots vegetation apart from shrubs  
 and trees dry. Slight record of *Catappa* (?) and  
*Apotroxis* sp (?).

5278 Granite hills bearing *Callitriche glauca*  
*Umbra guttulosa*, *Austrobaena guttulosa*.  
 Spinewood (*Tecoma*) *Eremophila latroli*.  
 Very little cover, *Eriosepogon* remains  
 principally. Occas. *Amaranthus* sp. in flower  
 otherwise bare. Very dry.

5288 Kemmore Pk.



5291 Granite hills - outliers to the Musgraves

*Apatropis* sp. 2, *Uromyza gutturalis*, *Monistrol*

*Parus*, *Eremophila latrolii* dominant sp.

*pulcata*, *Pycnostictus variatus*, genus new 56 sp. 2,

Mixed grasses and herbaceous annual chief of  
*Azela schwaeca*, *Chortocetes*, *Terminifer* (?) *Corymbulaceae* sp.

which appears to be *Emmepogon* sp.

*Perbellia picta* (?) Genus new 56 sp. 7.

Ground cover still intact although dry.

Numerous 1" - 2nd instar *acridids*.

5296 Musgrave ranges, granite hills

*Desertaria* sp. 2, *Pycnostictus variatus*,

covered with *Spinifer* (*Tridactylus* var. *montanus*) Odd

*Azela schwaeca*.

scattered *Parus* in hills but mainly

concentrated around base of hill. *Eremophila*

*latrolii* also at base. Sandy approach

to hill covered with *Arctostaphylos*.

All dry. *Spinifer* has seeded and

decidedly laying off.

5303 Granite hills in the Musgraves as

*Uromyza* sp. 21, *Uromyza gutturalis*, *Colibites*

above with the exception that *Tridactylus*

*variegata*, *Apatropis* sp., *Azela schwaeca*, *Pycnostictus*

has become subordinate. *Emmepogon* sp.

*variatus*, *Desertaria* sp. 2, Genus new 56 sp. 7

*Crotophaga* *aeropoda* and mixed herbaceous

dicots. Again good cover but dry.

5312 *Embellia Mission*



genus nov 56 sp 2, Chort. *Terminifera*, *Umsa guttulosa*.

5312 Depart 30-9-60

genus nov 56 sp 2

5314 *Atriplex nummularia* covered valley  
*Atriplex* sp 4, *Colletaria variegata*, *Macrocalyx*  
 floor between hill covered in *spineux*  
*canaria*, *Desertaria* sp 2, *Azalea ochracea*,  
 (Trodia) Little cover other than salt bush  
*Macrocalyx* sp, *Austracris guttulosa*,  
 and Trodia

5315 Break Xing

5326 Small rock Gneiss knoll bearing  
*Colletaria variegata*, *Austracris guttulosa*,  
 occas. *A. anura*, and odd *A. tetragonophylla*.  
*Umsa guttulosa*, *Atriplex sulphurea*,  
 Pasture dry except for *Amaranthus* sp  
*Desertaria* sp 4, *Chort. Terminifera*, *Qualef. maculata*  
 and scattered *Trichium clavatum*, *Eragrostis*  
*Azalea ochracea*, *Desertaria longirigora*, genus nov 56 sp 7  
*aerifida* *calotis* sp and *Umsa pogon* dominant  
*Atriplex* sp 4  
 ground cover.

[5329] flytrap. [1] lunch time

5334 *Atriplex nummularia* depression  
*Typha* sp, *Austracris guttulosa*, *Umsa guttulosa*,  
 with scattered *A. tetragonophylla*, and occas.  
*Atriplex sulphurea*  
*Nakea lanina*. Inter-bush space bare  
 except of growth of *Eragrostis parriflora* in  
 shallow depressions.

5337 Break Xing

5337 *Atriplex nummularia* as an understory







with red stalked leaves. Plant cover under  
ridges mostly *Monarda*, *Hydrophyllum* sp.  
and *Senecio* sp., in brush, *Conocarpus* - *agrostis*  
common with *Thalictrum* *canadense* in rich  
places. *Prunella* sp. common.

5366 Campes Station [7:30pm - 10pm]

1-19-10

5366 Dept. 7:40pm

5374 Campes Station, N. 1000.

*Glaucolepis* sp., *Taxifera* sp., *Chortocarpus*  
*Ranunculus* *acris* in patches under  
*Conocarpus*, *Pyrostachys* *serotina*  
with much *Senecio* *canadensis* *holc.*, *Silene* *holc.*  
*Heptameris* *fruticosa*, and *Senecio* sp.  
at old small *Senecio*. Dry except for  
*Senecio*.

5382 Ranget (Mugans) *Thalictrum* *canadense* *plum*

*Glaucolepis* sp., *Staphylopodia* *sp.*, *Senecio* *sp.*  
leading up to base of range. Highest point:  
*Apocynum* *androsaemifolium*, *Senecio* *sp.*, *Callitriche* *variegata*,  
with *Callitriche* *glauca* and lower slope *A. arvensis*  
*Senecio* *sp.*,  
*A. kampana* and old *A. longifolia* *sp.*

Plants completely dry except for old  
plants of *Thalictrum*, *Lythrum* *canadense*, and



*Monarda* sp. Bulk of area, short *Lupinus*  
sp. *Callista lupulata*, all dry.

5393 - from way to state - near road.

5395 - from road along hill. Contains  
*Apocynum* sp., *Hydrilla* *schizocarpus*, *Gnaphalium*  
*puberulum*, *Callista* sp., *Callista* *apiculata*  
and all *Gnaphalium* *scriptum* in some such  
manner also *Hydrilla* *lanceolata* occurs.

5404 - Sand plain bearing *Monarda* *A.*  
*Monarda* *quadrifida*, *Monarda* *quadrifida*,  
*Monarda* and *Callista* *apiculata*. In some  
*Apocynum* *puberulum*, *Hydrilla* *schizocarpus*, *A. sept.*,  
*Desmodium* (*Desmodium*), together with  
*Monarda* *puberula*, *Hydrilla* *schizocarpus*, *Monarda*  
and *Callista* *apiculata*. *Hydrilla* sp.  
A. sept., *Monarda* sp., *Callista* *apiculata*, *A. sept.*  
*Monarda* *puberula*, *Hydrilla* *schizocarpus*, *Monarda*  
*puberula*, *Hydrilla* sp., *Desmodium* *longicaule*  
*apiculata*. Most of area and dry part bearing  
*Monarda* sp. 1" water *apiculata* common in  
some instances on the Treaders.

5410 - Sand plain with a stick of *A.*  
*puberula* sp., *Monarda* *quadrifida*, *Callista* sp.  
*puberula*. Ground cover good part dry -  
*Gnaphalium* sp., *Monarda* sp.,  
part green composed of *Hydrilla* sp.  
*Gnaphalium* sp., *Callista* sp. (dry) *Hydrilla*  
*puberula* and *Callista* *puberula*.



5414 Sand plain. *Trachia bandowii* as before  
*Agrostis* sp., *Humulus* sp., *Monarda* sp.,  
 with *Panicum* sp. along side the road. No  
*Rhus* sp. *guttata*  
 other vegetation.

5422 Sand wet. Low *Trachia*  
*Monarda* *guttata*, *Agrostis* sp.,  
*A. ligulata* with an undergrowth of *Trachia*  
*Rhus* sp., *Humulus* sp., *Agrostis* sp., *Panicum* sp.,  
*bandowii*, some scattered *Agracanthus* sp.  
*guttata* *Monarda* sp.  
 and yellow *Helianthus* sp.

5427 Sand wet. Low *Trachia*  
*Monarda* sp. (1811) *Humulus* sp. (1811),  
 with a small *Trachia* sp. in clumps.  
*Humulus* sp., *Trachia* sp., *Agrostis* sp.,  
 Old *Trachia* sp., undergrowth of *Trachia*  
 sp. (1811), *Monarda* sp., *Agrostis* sp. (1811)  
*bandowii* and scattered *Panicum* sp.,  
*Humulus* and *Agracanthus* with old *Trachia*

*guttata*.  
*Agrostis* sp., *Humulus* sp., *Monarda* sp.,  
 5434 Low *guttata* *Trachia* *bandowii*.  
*guttata*, *Humulus* sp., *Monarda* sp.,  
 on wet sand plain; scattered *Panicum* sp.  
*Monarda* sp.  
 with *Trachia* forming a sparse forest in some

5432 Sand plain. Rocky hill with  
*Monarda* sp., *Agrostis* sp., *Trachia* sp.,  
*guttata* sp., *Humulus* sp., *Monarda* sp.,  
*bandowii* sp., *Agrostis* sp., *Trachia* sp.,  
 growing dense with a *Monarda* sp. in  
 splotch 7, *Humulus* sp. (1811) sp. 3, *Monarda* sp. (1811) sp. 2  
 and forming sand plain. Low *guttata* and



*Cotapa* sp., *Guano* sp. 56 sp., *Pycnostictus* *concolor*,  
*Leptocoma* *brunnea* among rock masses. *Hebe*  
*Perisphaera picta*.  
 Spring and dead masses of *Andropogon* *applanatus*.  
 Small patches of *Leptocoma* *brunnea*.  
*Guano* sp. 56 sp., *Pycnostictus* sp., *Leptocoma* *brunnea*.  
 5450 *Hebe* *perisphaera* dominant with  
*Guano* sp. 56 sp., *Guano* sp. 57 sp., *Urena* *guttulata*,  
*Urena* *guttulata* sp. and *Urena* *guttulata*.  
*Heliotropium* *rubra* (L.), *Heliotropium* *pictum* *Leptocoma* *brunnea*.  
 In large stone hillside. *Hebe* *perisphaera*.

*Delectaria* *alba*  
 Camped 5450 [700 - 1130]

5450 5-10-60 Depart. 7-20

5452 Well weathered along hill *Guano* sp.  
*Urena* *guttulata*, *Perisphaera* sp., *Pycnostictus* *concolor*.  
 Ground cover consisting of small *Leptocoma* *brunnea*.  
*Guano* sp. 56 sp., *Guano* sp. 57 sp., *Urena* *guttulata*, *Urena* *guttulata* sp.  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.  
 In large rock masses *Urena* *guttulata* *Leptocoma* *brunnea*  
 and *Urena* *guttulata*. *Solanum* sp.

[5460] *Urena* *guttulata* & *Urena* *guttulata*. 144 *Urena* *guttulata*

5462 *Urena* *guttulata* *Urena* *guttulata* *Urena* *guttulata*  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.

*Urena* *guttulata* *Urena* *guttulata* *Urena* *guttulata*  
 5471 *Urena* *guttulata* *Urena* *guttulata* *Urena* *guttulata*  
*Urena* *guttulata* sp. *Urena* *guttulata* sp. *Urena* *guttulata* sp.



of *Bumelia* sp and several herbaceous sp.

5490 Area of transition limestone *Leucaena*  
*uncultata* sp, *Phaseolus* *torilis*, *Stemodia* *sp* *sp*,  
*A. laetata* and *unrayana* with some.

*Phaseolus* *unrayana* *sp*, *Phaseolus* *torilis* *sp*,  
*Leucaena* *sp*, *Trichilia* *bracteata* and

*Trichilia* *sp* as small community. Small

area sparse on limestone area, composed of

*Salicoides* *hali*, *Phaseolus*, *Trichilia* *sp*

and *Leucaena* *sp* and *Sida* *acuta*.

5491 Island of *Alouatta* *sp*, *Leucaena* *sp* and  
*Macaranga* *sp*, *Stemodia* *sp*, *Phaseolus* *sp*,  
with some understory of *Bumelia*  
*sp*.

5492 A Tour off to Lake Wilson

5492 Trunkton Range. Slope rocky hill

*Phaseolus* *unrayana* *sp*, *Phaseolus* *sp*, *Phaseolus* *sp*,  
*Leucaena* *sp*, *Phaseolus* *sp*, *Phaseolus* *sp*,  
*sp*, *Phaseolus* *sp*, *Phaseolus* *sp*,  
and *Phaseolus* *sp* are dominant. The *Phaseolus*

being confined to rock crevices: *Heckia* *sp*

and other small plants for *Phaseolus* *sp*

and other small plants for *Phaseolus* *sp*

Phaseolus mainly dry.

5520 Mt. Duma

5528 *Phaseolus* *sp* and *Phaseolus* *sp*

*Phaseolus* *sp* (*Phaseolus* *sp*) and *Phaseolus* *sp*

5505 *sp*







2547 A brown, round plant with  
Hairs, leaves,  
In the middle of the plant.



3.10.60 D/F 5554

5551 Sand plain level up to red sand.  
*Wormwood* sp. P131, *Callitriche* sp. P132, *Urtica* sp. P133.  
*Senecio* *longicaulis* var. *laevigata* *Platanus*  
*Rhus* *copallina*, *Fig* *sp.*, *Myrica* *sp.*,  
*Opuntia* *sp.* and *Stemodia* with *uncultivated* *weeds*.  
*Stemodia* *sp.* *partially* *erect*. *Stemodia* *sp.* *erect*.  
*Stemodia* *sp.* *erect* *Platanus* *sp.*  
*Stemodia* with *shrubby* *Senecio*, *Senecio*  
*Platanus* (*Dubautia* *repens*) and *Erigeron* (*Thaps*)  
*Occasional* *Hakia*.

5555 Undulating out on a hill country  
*Wormwood* sp. P131, *Callitriche* sp. P132, *Urtica* sp. P133.  
*Senecio* *longicaulis* var. *laevigata* *Platanus*  
*Rhus* *copallina*, *Fig* *sp.*, *Myrica* *sp.*,  
*Opuntia* *sp.* and *Stemodia* with *uncultivated* *weeds*.  
*Stemodia* *sp.* *partially* *erect*. *Stemodia* *sp.* *erect*.  
*Stemodia* *sp.* *erect* *Platanus* *sp.*

5570 Shrub - *Senecio* in *Senecio* *Platanus*  
*Senecio* *longicaulis* var. *laevigata* *Platanus*  
*Rhus* *copallina*, *Fig* *sp.*, *Myrica* *sp.*,  
*Opuntia* *sp.* and *Stemodia* with *uncultivated* *weeds*.  
*Stemodia* *sp.* *partially* *erect*. *Stemodia* *sp.* *erect*.  
*Stemodia* *sp.* *erect* *Platanus* *sp.*  
*Senecio* *longicaulis* var. *laevigata* *Platanus*  
*Rhus* *copallina*, *Fig* *sp.*, *Myrica* *sp.*,  
*Opuntia* *sp.* and *Stemodia* with *uncultivated* *weeds*.  
*Stemodia* *sp.* *partially* *erect*. *Stemodia* *sp.* *erect*.  
*Stemodia* *sp.* *erect* *Platanus* *sp.*

*Pyramidalis* ... *Thymus* ...

8375 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...

8376 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...

8377 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...

8378 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...

8379 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...

8380 *Sundell* ... *Pyramidalis* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...  
*Pyramidalis* ... *Thymus* ...





5002 Giles [Lyon - 11:30 pm]

5000 60 Depart Giles for Washington.

5002

5001 Tundra arctic sub-alpine with  
*Deschampsia longicauda* *Utricularia* sp.  
 half of scattered mixed trees, comprising  
*Populus tremula*, *Salix* *betula*, and  
*Quercus punctifolia*. Most from the Tundra  
 are scattered parts of *Salix* sp. *Salix*  
 and *Deschampsia* are present. *Myrica* of  
*Hippocrepis* *emerus* group present on the  
*Salix* sp. (*Trichomanes*). *Polygonum*  
*plumbeum*.]

5009 Sandy bank near river mouth  
*Phacelia* *serotina* *Penstemon* *sp.* *Utricularia* *sp.*  
*Deschampsia* *longicauda* *Utricularia* sp, *Grass* sp,  
 most along the bank. *Carex* *acutata*  
*Deschampsia* sp, *Grass* sp, *Utricularia* *sp.*  
*Utricularia* on the upper bank with

*Deschampsia* sp. *Polygonum* *plumbeum* sp

that plant for *Hippocrepis* *emerus*.

5010 Deschampsia longicauda Utricularia sp.  
*Deschampsia* *longicauda* *Utricularia* *sp.*  
*Deschampsia* *longicauda* *Utricularia* *sp.*  
*Deschampsia* *longicauda* *Utricularia* *sp.*  
*Deschampsia* *longicauda* *Utricularia* *sp.*



palustris, *Myrica* *suffraganea*, *Utricularia* etc.  
Some patches more or less throughout.  
August 87 etc.  
Tender dry. Many plants growing along  
roadside in shallow hollows.

3729 *Utricularia* *pauciflora* with *Utricularia*  
*capitata* *Utricularia* *capitata*  
suggestion of up-plant having *Utricularia*  
*basidiosa* with *Utricularia* *basidiosa*  
*Utricularia* *pauciflora*, *Utricularia* *capitata*  
and a small *Utricularia* sp. Most from  
*Utricularia* little other plants visible.  
(Thompson spec. successful.)

3736 *Utricularia* *pauciflora* with *Utricularia* *capitata*  
*Utricularia* *capitata*, *Utricularia* *capitata*,  
and *Utricularia* *capitata* *Utricularia* *capitata*  
*Utricularia* sp., *Utricularia* *capitata*, *Utricularia* *capitata* (1871),  
*Utricularia* *capitata*, *Utricularia* *capitata*,  
*Utricularia* sp.  
*Utricularia* *capitata* *Utricularia* *capitata* *Utricularia* *capitata*  
*Utricularia* *capitata* *Utricularia* *capitata* *Utricularia* *capitata*  
very dry

3740 *Utricularia* *capitata* *Utricularia* *capitata*  
*Utricularia* sp. or P15, *Utricularia* sp. 137,  
*Utricularia* *capitata* and *Utricularia* sp.  
*Utricularia* sp. P11, W sp. P122.  
*Utricularia* *capitata* *Utricularia* *capitata*  
*Utricularia* *capitata* *Utricularia* *capitata*

with many miscellaneous small shrubs.

*Myrica* - *Tetradlea* - *Phacelia*.

*Phacelia* - many flowering shrubs.

5764 *Tetradlea* flat bottom sand dunes

*Myrica* *Myrica* *Myrica*, *Utricularia* sp., *Desmodium*

*Tetradlea* *Tetradlea* *Tetradlea*, with

*Longimorpha*, *Azelata* spp.

*Myrica* sp. Small woody shrubs,

*Myrica* sp. *Desmodium* sp. Country veg.

5767 Sand plain between dunes having

*Tetradlea* *Tetradlea* and *Desmodium*

*Myrica* *Myrica* *Myrica* *Myrica*.

5771 *Myrica* sp. 7pm - 10:30pm

6.15.60 5771 *Myrica*.

5760 Sand dunes country *Desmodium* &

*Myrica* *Myrica* *Myrica* *Myrica* sp.

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica*.

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica* *Myrica*

*Myrica* *Myrica* *Myrica* *Myrica* (mallee)

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica* *Myrica*

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica* *Myrica*

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica* *Myrica*

*Myrica* *Myrica* *Myrica* *Myrica* *Myrica* *Myrica*



*Psophodes* sp. (f). Genus nov 57. sp. 1.

*Uromyces* sp, Genus nov 117) sp. 1. *Uromyces*  
*gallulosa*, Genus nov 48. sp. 1, *Uromyces* sp, *Uromyces*  
*seriatus*.

*Uromyces* sp. Pol II. *Uromyces* sp.

Genus nov 117) sp. 1, *Uromyces* sp. *Uromyces* sp.

Genus nov 57. sp. 1

Superornia sp, Austracera gutt. etc. Stroph. sp.

Genus nov 14(?) sp, Pyren. sp.

Superornia sp, Penicill. sp, Phaulacanthum sp (nr 3)

Genus nov 6(?) sp, Hyenostictus seriatu, Uromyces

Uromyces gutt. etc, Stroph. sp, Austracera gutt. etc.

Pyren. sp, Seriatu, Stroph. sp, Uromyces sp

Stroph. sp, Seriatu, longinquus, Pyren. sp.

Genus nov 6(?) sp, Uromyces gutt. etc.

Phaulacanthum, Retusum, etc.

Conspicua sp. & Uromyces sp.



genus not 14 (?) sp 6, *Parazelum rubricum*, *Rufocornia* sp.

genus not 5 sp 1, genus not 11 (?) sp 11/1.

*Chorticetes tenuifera*, *Parazelum rubricum*, *Rufocornia* sp.  
*Monia* sp. *Hulosa*, *Austrocoris* sp. *Hulosa*, *Monia*  
*g. Hulosa*, *Rufocornia* sp.

*Monia* sp. 8, *Monia g. Hulosa*, *Chorticetes*  
*tenuifera*, *Rufocornia* sp. 12)

*Chorticetes tenuifera*

Urosella sp.

Genus n. sp. (?) sp. 14, Dactylosia longicauda  
non sp. 10. Dactylosia  
Dactylosia gutturalis.

Dactylosia sp. Dactylosia sp. 1, Dactylosia  
cornuta, Dactylosia longicauda.

Dactylosia sp.

Dactylosia sp. Dactylosia sp. 1, Dactylosia  
cornuta, Dactylosia longicauda.



Genus nov 57 apt, Desectaria longinqua, Umanella sp.

1877  
Genus nov 57 apt, Desectaria longinqua (f)

Genus nov 57 apt, Desectaria longinqua (f)

Desectaria (f)

Genus nov 57 apt, Desectaria longinqua (f)

1878 1. Desectaria longinqua (f)

Desectaria longinqua (f)

Desectaria longinqua (f)

Desectaria longinqua (f)

NY 28

*Helophanes herminifera* (Helophanes) *herminifera*

*Helophanes herminifera*

✓

*Helophanes herminifera* (Helophanes) *herminifera*  
*Helophanes herminifera* (Helophanes) *herminifera*

*Helophanes herminifera*

*Helophanes herminifera*

128

*Helophanes herminifera* (Helophanes) *herminifera*

✓



*R. jamaica* sp.

[illegible]

*Bufo rana* sp., *Ptychocheilus senegalensis*, *Qualia maculata*.

genus nov 14(?) sp 1.

*[Faint handwritten text]*

✓

*Urosalpinx guttulosa*, *Bufo arenarum* sp., *Chorocates terminifera*,  
*Macrophthalmus* sp., *Apotrochus sulphuripennis*, *Bufo* sp.,  
*Qualeto maculata*, *Pyronotictus acricatus*.

✓

*Qualeto maculata*

✓

*Amphimachus* sp. (W. 1875), *Amphimachus* sp., *Rhynchophis* *tricolor*,  
*Pyronotictus acricatus*, *Agalyptis* sp., *Urolophus* sp., *Amphimachus*  
*guttulosa*, *Salicetia* sp. 10 (8)



✓ *Chortociclus tenuiflorus*, *Depressaria* sp.

✓ *Macrolebalea scellata* (sketch), *Depressaria* sp.

*Depressaria* sp., *Quadrata maculata*, *Heteropternis* sp.

*Depressaria* sp. (sketch).

✓ *Chortociclus termenifera*, *Capromia* sp?

*Quadrata* sp., *Pycnostictus punctatus*, *Uromyces* sp.

*Bulbocampus* sp. (1-2) *Pistilium* sp.

✓ *Chortociclus termenifera*, *Capromia* sp?

✓

*Metaphysalis leishmanii*, *Synanthus leishmanii* sp. n. (Synanthus)

*Metaphysalis leishmanii*, *Synanthus* sp., *Azotus* ...



*Apotropis vittata*, *Qualella maculata*, *Pzeloto* sp.

✓ Moraba sp Pp4, Callitula sp (♂), Urosia guttulosa,

*Pycnostictes similis*, Desmarest. Longirostris, Urocentrus sp.

*James nov 168 sp<sup>1</sup>, Respublica sp<sup>4</sup>.*

✓ *Hydrotia* sp. n. *Chlorocystes* *terminifera* *Hammerling* sp.

✓ *Warrenunga* sp. B + B<sub>1</sub>, *Ahraba* sp. B + B<sub>1</sub>, *Agrostis* sp.

Amputation

*Utricularia guttulosa*, *Strophis* sp2, *Microrhiza* sp2, *Phrym. ...*

*seriatus, Azelota* sp 4, *Desertarea longirugosa*, *Parasitica*

*temunifera*, *Capitata* sp 2

*Strophis opz2, alternatim* 5-6

✓  
Atractodes guttator, Macrolophus sp.,  
Atractodes guttator, Pyrenostictus seriatus,  
Atractodes, sp. (see 31) etc.

Atractodes guttator, Apotrochus subdus, peris, Atractodes  
guttator, Pyrenostictus seriatus, Atractodes, sp.  
Atractodes sp.

Atractodes sp., Apotrochus sp., Atractodes, sp.  
Apotrochus vittatus, Pyrenostictus seriatus



*Qualetha maculata*, genus nov 31 sp, & *Tropus* sp 2.

*Bufo* sp.

*Bufo* sp.

*Leptanthus quadrilobus*, genus nov 17 sp.

*Guttulata*, *Cassidula* sp 3, *Bufo* sp.

*Ascaris* *pulsilla* (?), *Ascaris* *viridis*, *Ascaris* *viridis*.

*Ascaris* *viridis*, *Ascaris* *viridis*, *Ascaris* *viridis*, *Ascaris* *viridis*.

*Bufo* sp., *Ascaris* *viridis*, *Ascaris* *viridis*.

*Ascaris* *viridis* (?), *Ascaris* *viridis* sp.

myriophylls numerous, almost even or  
band density 3-5<sup>th</sup> inches. [8-10-20p]

12.10.60. Depart. 6521.

6528 *Plumosa* woodland with  
(Cult. sp. 10), *Utricularia* sp., *Epilobium* sp.  
occ *Eragrostis ciliaris* and *Eragrostis*

*maritima*. Old *Fuchsia* *Tasmanica* otherwise  
scattered patches of *Arctostaphylos* sp., *Drosera*  
*lupulata* and *Eragrostis ciliaris*. Pasture  
dry. *A. ciliaris* as occasional,  
similar to broad-leaf form of *maritima*.

6532 Abundant more salt water

6547

*Plumosa* woodland with scattered *Eragrostis*  
(Cult. sp. 10), *Utricularia* sp., *Epilobium* sp.  
*maritima*, *Eragrostis* sp. (*Eragrostis ciliaris*)

*A. tetragynophylla*, *Eragrostis* sp. (fine sp) with *Parakeet*  
(Cult. sp. 10), *Utricularia* sp., *Epilobium* sp.  
and *Arctostaphylos*. Low dry. *Eragrostis* sp.

3rd-5th. Young more numerous  
1<sup>st</sup> meters on *Eragrostis* sp.



6568 Agnes.

6569 *Stipa* *serotina* *serotina*  
*Coprosma* sp. 2, *Hedera* *gelatinosa*, *Macrostelma* sp.  
near *serotina*. *Hamamelis*. *Cornus* *canadensis*  
*Berberis* sp., *Myrtophis* *vitellata*, *Quercus* *macrocarpa*,  
and *Cornus* sp. with *opuntia*. *Sparganium* *angustifolium*  
*Eleocharis* *guttulosa*, *Stachys* *serotina*  
*Erigeron* sp., *Trichium* *ovellatum* and  
some composites all in full bloom, cover  
greenish.

6569 Creek King.

6572 *Hamamelis* *serotina* with *serotina*. *H. virginica*  
*Myrtophis* sp. 2 (distorted), *Stachys* sp. 2, *Eleocharis*  
*guttulosa*, with *serotina* sp. *Sparganium* *angustifolium*  
*Eleocharis* *guttulosa*, *Sparganium* *angustifolium*, *Opuntia* sp.  
in various forms of *serotina*, *Hamamelis*  
*Myrtophis* *vitellata*.  
*Hamamelis* *serotina* and *serotina* of *Hamamelis* *serotina*,  
Although not completely dry is rapidly  
drying off. *Opuntia* *serotina* *Hamamelis*  
*Hamamelis* *serotina* *Hamamelis* *serotina*  
very distinct population but numerous.

6577 *Hamamelis* *serotina* *Hamamelis* *serotina*  
*Berberis* sp., *Myrtophis* *vitellata*, *Hamamelis* *serotina*  
on edge of creek. *Sparganium* *angustifolium*. *Hamamelis*  
*Myrtophis* *vitellata*, *Hamamelis* *serotina*, *Coprosma* sp. 2  
*Hamamelis*, *Erigeron* sp., *Cornus* *canadensis*  
*Stachys* *serotina*  
*Hamamelis* *serotina*. *Hamamelis* *serotina* in creek.



down at low shrubby stand with a  
 the base of leaves paper and T. ...  
 ... mainly thin & dry.

1125 *Ruellia* King.

1129 Strong area at base of range  
*Monticola* sp. 4, *Quercus* nov. sp. 1, *Carya*  
 with *Quercus* *Bureau* & *H. ...*  
*Butoriana* sp., *Arabis* sp., *Colpocoma* sp. 2  
 ... *Thymus* sp. as shrub  
 ... *Bureau*  
 ... *Stipa* sp. and mixed annuals  
 ... *H. ...*

1130 *Butoriana* sp., *Quercus* nov. sp. 1

1130 *Quercus* [7pm - 8pm]  
*Quercus*, *Quercus* *maculata*, *Quercus* nov. sp. 1,  
*Butoriana* sp. (??)

13.10.40 Depart 6640

6656 *Panicum* scrub both

*Stipa* sp. 2, *Quercus* sp. 2  
 broad - narrow leaf forest. *P. ...*  
 ... *Thymus* sp.  
 yellow as occurs. Scattered *Thymus* sp.  
 ground cover fine leaf *Eragrostis* sp  
 and mixed composites. All dry.



Y  
XO XU  
All together for hoppers - young adults  
as a loose band, in which are *A. pusilla*.  
*Aristida* L. on *A. minor*.

6472 *Aristida* flat at base of  
*Compositae* sp. *Aristida* sp. *Chrysanthemum* sp.  
slightly puffy. *Compositae* sp.  
*Compositae* sp. *Aristida* sp. *Aristida* sp.  
*Aristida* sp. *Aristida* sp. *Aristida* sp.  
patchwork pattern with puffy  
cells. [L. sp. sp.]. All together  
- *A. pusilla* numerous.

6491 *Aristida* *Aristida* along  
road with scattered *Aristida*. All  
*Aristida* sp. *Aristida* sp. *Aristida* sp.  
*Aristida* sp. *Aristida* sp. *Aristida* sp.  
small *Aristida*, *Aristida* sp.  
and some *Aristida* make up the patch  
*Aristida* in mosaic pattern with  
relatively large stony areas. All together  
- *A. pusilla* - yep's numerous.

6493 *Aristida* (linear type) along  
road with scattered *Aristida*. All together  
*Aristida* sp. *Aristida* sp. *Aristida* sp.  
patchwork of *Aristida*, *Compositae*, *Aristida*  
*Aristida* sp. *Aristida* sp. *Aristida* sp.

*Microphylla* sp. *Boerhaavia* sp.  
and *Adiantum*. *Chromolaena*  
var. *var. 514*.

6717 *Sancti*. 2 miles 6717-6721

6729 *Sancti*. [Eps - 1220]

4-10-60 Dept 6728 in Cano.

6736 *Maranta* scrub with *Microphylla*  
*Adiantum* sp. (f), *Boerhaavia* var. *514*  
and *Adiantum* with *Microphylla* sp.  
Some low shrubs in forest near *Adiantum*.

6741 *Yucca* *basilifera* scrub plain  
with *Yucca* sp. (f), *Boerhaavia* var. *514*  
with *Yucca* sp. and *Microphylla*.  
*Adiantum* sp. (f), *Boerhaavia* var. *514*, *Boerhaavia* var. *514*,  
with *Thymelaea* sp. 1" under *Boerhaavia*.

*Microphylla* *Thymelaea* sp.  
change *Boerhaavia* sp. 2  
6752 Vegetation line from *Boerhaavia*  
*Boerhaavia* (f) (f) *Boerhaavia* var. *514*.

*Boerhaavia* with *Maranta* *Microphylla*  
Dep. *Boerhaavia* *Boerhaavia* var. *514*, *Boerhaavia* var. *514*,  
with *Yucca* sp. and *Microphylla* sp. (f)  
now 1" (f), *Boerhaavia* sp. (f), *Boerhaavia* sp. (f), *Boerhaavia* var. *514*  
var. *514*), latter two species as a  
sp. *Boerhaavia* var. *514*, *Boerhaavia* var. *514*, *Boerhaavia* var. *514*  
Some compact  
and *Boerhaavia* *Boerhaavia*.

6760 Road community of *Boerhaavia*

677 Census - Newby Mission.

6810 *Passiflora* scrub with an  
Resistant to *Pyrenopeziza*, *Alternaria* sp.  
under story of *Passiflora* *apertifolia*  
*Unonopsis*, *Pyrenopeziza*, *Stropharia* sp., *Phallaria* *colorata*  
*gibba*, *Passiflora* sp. (mammillata) and  
occasional *Passiflora* *lutescens*. Ground  
cover of *Passiflora* *lutescens*, *Crucifera*  
*uniflora* with *Passiflora* *lutescens*.  
Grass cover, very dry.



*Helipia unicolor*, *Sp. nov.* 5/10/1. *Helipia*  
*maculata*, *Sp. nov.* 5/10/1. *Helipia* *maculata* 11

6822 Stopped in forest tracks springs  
 Forest. *Sp. nov.* 5/10/1.  
 camp. (all light). [7-11 pm]

5.10.60

6822 Deposit. (this trapped)

6837 This community of *Parana*, *Luc.*  
*Parana* sp., *Sp. nov.* 5/10/1, *Helipia*  
*maculata*, *Sp. nov.* 5/10/1, with *Parana*.  
 Forest. *Sp. nov.* 5/10/1, *Helipia* sp.,  
*Parana* as a ground cover. Very  
 dry. *Parana* *maculata* sp.

6845 Low *Helipia* range in dense  
 forest. *Sp. nov.* 5/10/1, *Helipia* *maculata*.  
*Parana* *maculata*, with *Parana* *maculata*.  
*Parana* sp., *Sp. nov.* 5/10/1, *Helipia* *maculata*.  
 on the rocky knolls. *Parana* *maculata*, *Parana* *maculata*.  
*Parana* sp., *Sp. nov.* 5/10/1, *Helipia* *maculata*.  
 on the knolls, and *Parana* *maculata* (same).  
*Parana* *maculata*, *Parana* *maculata*.  
 among the dominant shrub layer. Grass  
 cover on forest. *Parana* *maculata* and  
*Parana* *maculata* (dry).

6871 Sand dune with scattered  
*Parana* sp. 1/1, *Parana* *maculata*.  
*Parana* sp. 1/1, *Parana* *maculata*.  
*Parana* sp. 1/1, *Parana* *maculata*.  
*Parana* sp. 1/1, *Parana* *maculata*.  
*Parana* sp. 1/1, *Parana* *maculata*.  
 throughout. *Parana* *maculata* on *Parana*.

1892 *Wassmannia* sp. (P.W.), *Phytolopia* sp. (P.W.)

*Chetoceros* *fariniferus*, *Phaeobotrys* *granatus*,  
*Russowia* *farinosa*, *Desmarestia* *longicauda*,  
*Phaeobotrys* (Wassmannia) sp. (P.W.)

*Phaeobotrys* *farinosa* and *Chetoceros* *granatus*. Dry.

1899 *Wassmannia* sp. (P.W.), *Phytolopia* sp. (P.W.)

*Macrodontia* sp. (P.W.), *Desmarestia* *longicauda*,  
*Phaeobotrys* *farinosa* and *Chetoceros* *granatus*,  
*Phaeobotrys* *farinosa*, *Desmarestia* *longicauda*,  
*Phaeobotrys* *farinosa* sp. with *Desmarestia* *longicauda*.

*Phaeobotrys* *farinosa*. Dry.  
 (P.W.) *Antrodia* *guttulifera*, *Chetoceros* *fariniferus*,  
*Wassmannia* sp. (P.W.), *Desmarestia* *longicauda*,  
*Parazetium* *guttulifera*, *Russowia* *farinosa*,  
*Antrodia* *guttulifera*, *Antrodia* *farinosa*, *Goniopsis* sp.  
 and *Desmarestia* *longicauda* (Goniopsis 14(?) sp.).

695 *Antrodia* *guttulifera* and *Phaeobotrys* *farinosa*.

*Antennaria sp.* *Hesperis*, *Gnaphalium* 18 sp.,  
 with scattered *Ranunculus*  
*mon. bellus* sp., *Gnaphalium* 17 sp., *Gnaphalium* 18 sp.,  
*Gnaphalium* *fruticulosum*, *Gnaphalium* sp.,  
*Chenopodium* *latifolium* sp., *Rhus* *copallina* *Proctor*,  
 and *Chenopodium* sp., *Chenopodium* sp.,  
 and *Chenopodium* sp. *flavum* along roadside  
 and in full flower.

6932 - 11712 *Richtia*

6937. *Ranunculus* *acris* with an  
 undershrub of *Platanus* sp. This confined  
 to isolated areas. Remnants of ground  
 with a sparse cover of mixed annuals (dry)

6949. *Campylorhiza* sp., *Chenopodium* sp., *Chenopodium* sp.,  
 Camped at night. [8-11 pm]

16.10.42 Depart 6949.

6962. *Tridax* *latifolia* between sand dunes  
 with a thin *Juniperus* stand of *Euc.*

*Chenopodium* sp., *Gnaphalium* *fruticulosum*

*R. ligulata* and *Chen.* sp. With *T.*

*fruticulosum* and *Platanus* sp. make up  
 the ground cover.

6973. Low *Chenopodium* *acris* and



*Cypripedium* sp. 2, *Epipactis* sp., *Urtica* sp., *Asplenium* sp.  
*Apetropis* *impulsi* *peruviana*, *Quillettia* *americana*  
*Regulus* sp. 8, *Myiophobus* sp. 4, *Delichon* *hypoleucum*  
*Ammodramus* *peruviana* of *Phalaropus* sp., *Phalaropus*  
*peruviana* (f?)  
*Ammodramus* *peruviana* *peruviana*. Conditions dry.

1986 *Ammodramus* *peruviana* *peruviana* *peruviana*  
*Apetropis* *impulsi* *peruviana*, *Quillettia* *americana*  
*Regulus* *hypoleucum*, *Myiophobus* *peruviana*, *Delichon* *hypoleucum*  
*Ammodramus* *peruviana* of *Phalaropus* sp., *Phalaropus*  
*peruviana* (f?)  
*Ammodramus* *peruviana* *peruviana*. Conditions dry.

1992 *Apetropis* *impulsi* *peruviana*, *Quillettia* *americana*  
*Regulus* *hypoleucum*, *Myiophobus* *peruviana*, *Delichon* *hypoleucum*  
*Ammodramus* *peruviana* of *Phalaropus* sp., *Phalaropus*  
*peruviana* (f?)  
*Ammodramus* *peruviana* *peruviana*. Conditions dry.

2012 *Cypripedium* sp. 3, *Epipactis* sp. 3, *Urtica* sp., *Asplenium* sp.  
*Apetropis* *impulsi* *peruviana*, *Quillettia* *americana*  
*Regulus* *hypoleucum*, *Myiophobus* *peruviana*, *Delichon* *hypoleucum*  
*Ammodramus* *peruviana* of *Phalaropus* sp., *Phalaropus*  
*peruviana* (f?)  
*Ammodramus* *peruviana* *peruviana*. Conditions dry.

2034 *Ammodramus* *peruviana* *peruviana* *peruviana*  
*Catantopus* sp. (f), *Pardaliparus* *subniger*, *Epipactis* sp.  
*Regulus* *hypoleucum*, *Myiophobus* *peruviana*, *Delichon* *hypoleucum*  
*Ammodramus* *peruviana* of *Phalaropus* sp., *Phalaropus*  
*peruviana* (f?)  
*Ammodramus* *peruviana* *peruviana*. Conditions dry.

p. 87 I collected mostly birds and  
insects etc. (mostly birds) from the  
mountain side. The weather was very dry.

7076. *W. ...* [9-11-20]  
C. ...

1072 Camped (1000 ft. above sea level)

17.10.10

7-00 Dept 7002 Webster's Mission

[illegible]

7104 *Nannulus* & *Favos* very plenty, also *Thalysia*,  
*Morula* sp (Zonar. 9p) 1/2, *Sipuncula* sp, &  
with an understory of *Recher* *Enoplos* with  
*Bryozoa* sp, *Matricolipedia* sp, *Aglaophenia*, *Polysiphonia*  
patches of *Cruciatia* var *pallida*, *Udotea*, *Alveolaria*  
*Desmarestia*, *Enoplos*, *Chlorostictes* *terrestris*,  
of *Coeloceras* sp; *Murchisonia*, *Udotea*  
scattered over the whole area, several  
conspicuous sp. *Desmarestia* *terrestris* all large

*Aspergillus* sp. *Aspergillus* sp. *Aspergillus* sp.

[illegible]

7161 [8-20] at light  
(*Pteris patula*)

18.10.60. *Yucca* *Opuntia*  
*Haagea*, *Opuntia*, *Opuntia* sp. 11, *Dissectaria*  
*Longicarpa*, *Opuntia*, *Opuntia* sp.  
*Opuntia* sp. 12, *Opuntia* sp. 13  
*Opuntia* sp. 14(?) sp. 15



W. 14 ✓  
 7172 *Peking* ? *Alga granata* m. conf.  
*Azotula* *schizocarpus*, *Dumetia* *longiramus*,  
*Laurencia* *crustacea* *A. hirsuta* with  
*Stauroneis* sp. 11, *Leptocaulis* *caudata* sp.  
 several large blocks of *Halys* sp. [?]  
 black rock face exposed with large boulders  
 low-lying sp. growing in crevices and  
 small flat areas between stones. (drying off)

7183 *Alga* *granata* range very rocky  
*Stauroneis* sp. 29, *Laurencia* sp. 1  
 with scattered *Leptocaulis* (small) - on  
 the lower slopes, comprising *Trentia*  
 sp. *Stauroneis* sp. (small) and  
*Laurencia* sp. (very dry).

7187 Turn off into *Caranough* Bay.

7190 *Trentia* *laeta*.

7198 *Stauroneis* *cecidia*, *Azotula* *parvula*, *Dumetia*  
*schizocarpus* m. *Laurencia* *crustacea*. Rocky  
*Stauroneis* sp. 11, sp. 5, *Laurencia* sp. 29.  
*Stauroneis* with *Laurencia* *crustacea*, *Laurencia* sp.  
*Trentia* sp., *Azotula* *schizocarpus*, *Stauroneis* *laeta*,  
 and several smaller forms, under *Trentia*  
*crustacea*. *Stauroneis* sighted.

7211 *Trentia* *parvula* small plants  
*Azotula* *schizocarpus*, sp. 11. *Stauroneis* sp. 29  
 with *Laurencia* *crustacea* *A. hirsuta*,  
*Stauroneis* sp. 11, *Laurencia* sp. 12 (2) sp. 2.  
 and *Stauroneis* *laeta*. *Stauroneis* sp. 11.  
*Stauroneis* sp. 11, *Stauroneis* *laeta* *Stauroneis* sp. 11.







of the same sp.

Genus sp., Mycetozoa, etc. etc.  
sp 29, Genus sp., Mycetozoa, etc. etc.  
sp 30, Genus sp., Mycetozoa, etc. etc.

[illegible]

1917 All home on Francisco side

111. *Colony*

20-00-00

*Bufonaria* sp. (H) *Microplitis* *lucicola*

The first plant mentioned,  
 the *Asplenium adnigrum*, is a  
 common fern.

1890

*[Faint handwritten notes at the bottom of the page]*

*[Faint handwritten notes]*

... by ... Monday ...

*Sand dunes near Cape May*  
*Parasitum rubripes*; species new to sp.  
found also with *P. n. l.* and  
*Ambrosiella* sp.

Very close to *Paragobius ruber*, species not in sp.  
 but the color with the same as in  
*Amisipella* sp.

Very dry.

1576 4-11-1964



1475 *Top of sand dune, A. sandora*  
*Replanting ginger, Calceol.*  
*only. After 10 years under bush, only*  
*and plants for 10 years.*

*Hydrobia ulitica* (Th.)  
*M. sp.* (Cast.)  
*Parvulus rubripes* (G.)  
*Modiolus* (G.)  
*Mytilus* (G.)  
*Coryphæus* (G.)

1. *Hydrus* *Hydrus* *Hydrus*  
 2. *Hydrus* *Hydrus* *Hydrus*  
 3. *Hydrus* *Hydrus* *Hydrus*  
 4. *Hydrus* *Hydrus* *Hydrus*  
 5. *Hydrus* *Hydrus* *Hydrus*  
 6. *Hydrus* *Hydrus* *Hydrus*  
 7. *Hydrus* *Hydrus* *Hydrus*  
 8. *Hydrus* *Hydrus* *Hydrus*  
 9. *Hydrus* *Hydrus* *Hydrus*  
 10. *Hydrus* *Hydrus* *Hydrus*

256. *Sanguis*, *Laurum*, *Ranunculus*,  
*Helleborus*, *Pulsatilla*, *Staphylea trifolia*,  
... ..  
... ..  
... ..  
... ..  
... ..  
... ..  
... ..  
... ..  
... ..

7542 *Camphor* 11.8

21-10-40 DANK



7542 Bradell blaze Emu 46.  
190 sand raps on 70m.  $\frac{1}{2}$  6 H<sup>14</sup>  
N<sup>o</sup> 55

7543 Travertine area with sandy flat  
between dunes. *Tapeata* sp, *Pzelota ochracea*, *Apotrochis*  
*lus enatata*, *Euc leonora*,  
*sulphuripennis*, *Goniocera* spp (3), *Pardellana* sp (4),  
and *Cassia* sp dominant on travertine area.  
*Brachylaena* acroptera, *Emicafegon*, and *Stipa*  
*nitida* scattered thinly throughout.  
*Microsymbi* 3 present. Sandy area  
dominated by *A. ramulosa*. Dry.  
but evidence of good season.

7554 As above with *A. ramulosa* present.  
*Qualeffa maculata*.  
& *Cassia* *starkii*

7588 Emu. Fly trapping.

22.10.60

588 Dept. Emu. Gale winds.

7601 Sand plain with slight  
undulations bearing *Uromyces gutturalis*,  
*A. aneura*, *A.*  
*ramulosa*, *A. ligulata*, *Dordaneacanthus*.  
Isolated clumps of *Euc leonora* present.  
Ground cover *Danthoria bipartita*.  
*Crocosmia* acroptera and some *Euc*.  
Very Dry



7617 Observatory Hill

7631

Sand dune and flat bearing *Umbrella* sp.  
*A. ramulosa*, *A. unguis*, and *Eremophila*  
*sturtii*. Ground cover good composed  
of *Dactyloctenium aegyptium*, *Prostrata arenaria*,  
*Erigeron acerifolius* and some mixed  
composites sp. Area green after apparently  
recent rain. Nymphs present.

7648

Sand plain bearing *A. ramulosa*.  
*Umbra guttulosa*, *Azelota ochracea*,  
*Cas. cristata*, *A. ligulata* and  
*Cassia*. Ground mixed composed  
of *Stipa nitida*, *Erig. acerifolius*,  
*E. sp.* and *Parahelyx*.  
*Bassia* and *Kochia* *triflorus* mainly  
under *Cassia*.

7701

Maralinga

7713

Mallee *Eucalyptus* and *Trochus*  
~~*Apotrochus*~~ *Apotrochus villosa*, *Ruscus*  
with much shrub layer although sparse  
*R. triflorus*, *Gonocarpus* sp., *Umbrella* sp.  
*Lygophyllum* *recondens*  
of ground cover.



7721 Desert scrubland bearing  
*Aptropia vittata*  
*A. annulosa*, *Euc. cleora*, *Myoporum*  
*platycarpum* as dominants. Ground  
 cover sparse dominated by *Kochia*  
*triflora*, with *Stipa* sp and below  
 of *Lepidium* sp. Very dry.

7729 Open limestone plain bearing  
*Aptropia* sp 5, *Tapestria* sp  
*A. venicaria*, *Salsola* sp, *Bassia* sp  
 and some *Stipa*. for most part dry.

7733 Nelson *Uromyza guttulosa*, *Qualetta*  
*maculata*

7733 Depart 23-10-60  
*Macrolophosia* sp, *Genuonov* 32 sp,

7749 Open limestone plain bearing  
*Aptropia* sp 5, *Tapestria* sp.  
*A. venicaria*, *Salsola* sp, *Bassia* sp  
 and some *Stipa*. Area relatively

7752 *Austrocytis guttulosa*, *Uromyza* sp (f) *Tapestria* sp  
 Open limestone plain bearing  
*Moraba* sp, P33, *Qualetta maculata*, *Chortocetes*  
*Kochia pedifolia*, *Sida* sp and *Stipa*.  
*Tamniifera*, *Macrolophosia* sp.  
*Sida* - *Stipa* green.

7753 *Ooldea*



7768. Undulating limestone plain  
*Typha* sp., *Chorizanthe* sp., *Azelata ochracea*,  
*Lesqueria* *Rachia sedifolia*, *Barbarea* sp.  
*Oxalis maculata*  
 and some depressions *Encarpus* sp.  
 and *Stipa nitida*. Dry  
 foot tank here.

7800. Open plain, degenerate  
*Austrotrachis* *quadrifida*, *Typha* sp., *Chorizanthe*  
*A. ventricosa* area. *Barbarea* sp.  
*Terminifera*, *Aptropis* sp. 5, *Tapeeta* sp., *Austrotrachis*  
 as dominant, with *Stipa nitida*,  
*Nulla* *abundant*  
*Desfontainia* *semicircularis* and  
*Salsola* *halimifolia*. All dry except the *Barbarea*.

7816. Area of *Austrotrachis* on clay, etc.  
*Moraba* sp. P33, *Typha* sp., *Chorizanthe* sp. 6,  
*Stipa nitida*  
*Austrotrachis quadrifida*, *Azelata ochracea*  
 in patches, mainly dry except for  
*Stipa*. Foot. Tank.

7831. *A. ventricosa* with *A. ventricosa*  
*Typha* sp., *Gerardia* nov 32 sp., *Periplocia* sp. 9  
*Stipa* *nitida*, *Stipa* *nitida*  
*Aptropis* sp. 5, *Utricularia* *rugosa*, *Azelata*  
*ochracea*, *Austrotrachis* *fruticosa*, *Gerardia* nov 32 sp.  
*Stipa* *nitida*, *Stipa* *nitida*  
 between salt bush plants.  
 Cobana.